

# EUROPEAN PATENT OFFICE

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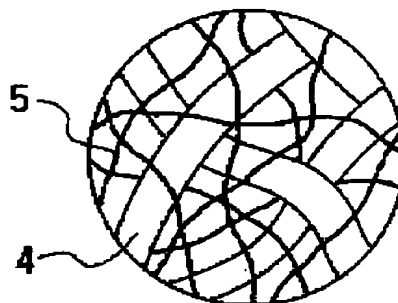
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APPLICANT : NIPPON SOKEN INC;

INVENTOR : KATO NAOYA;

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F01M 11/03

TITLE : FILTER MATERIAL OF OIL FILTER FOR  
INTERNAL COMBUSTION ENGINE



ABSTRACT : PURPOSE: To prepare a filter material certainly collecting finely divided carbon sludge and capable of increasing the collection amt. of carbon sludge in an engine oil to a large extent without increasing air passing resistance.

CONSTITUTION: Fine cellulose fibers 5 having a fiber diameter 1/10 or less that of cellulose fibers 4 being main fibers are mixed with cellulose fibers 4 and the mixed fibers are formed into a filter material increased in surface area and decreased in filter mesh size by a papermaking method. At least a part of the cellulose fibers 4 or fine cellulose fibers 5 is composed of cationic fibers having positive charge on the surfaces thereof and carbon sludge being an anion is attracted and removed by electrical attraction.

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